

18. Write the complete fact family for $\frac{1}{16} + \frac{1}{12}$ and for $\frac{5}{4} - \frac{4}{5}$.

19. Find the value for N that makes each number sentence correct.

a. $\frac{2}{3} + \frac{3}{4} = N$

b. $\frac{3}{4} + N = \frac{4}{5}$

c. $N - \frac{3}{5} = \frac{1}{4}$

For Exercises 20–25, find each sum or difference.

20. $2\frac{5}{6} + 1\frac{1}{3}$

21. $15\frac{5}{8} + 10\frac{5}{6}$

22. $4\frac{4}{9} + 2\frac{1}{5}$

23. $6\frac{1}{4} - 2\frac{5}{6}$

24. $3\frac{1}{2} - 1\frac{4}{5}$

25. $4\frac{1}{3} - \frac{5}{12}$

26. Find each sum. Describe any patterns that you see.

a. $\frac{1}{2} + \frac{1}{4}$

b. $\frac{1}{3} + \frac{1}{6}$


c. $\frac{1}{4} + \frac{1}{8}$

d. $\frac{1}{5} + \frac{1}{10}$

e. $\frac{1}{6} + \frac{1}{12}$

f. $\frac{1}{7} + \frac{1}{14}$

27. Tony works at a pizza shop. He cuts two pizzas into eight equal sections each. Customers then eat $\frac{7}{8}$ of each pizza. Tony says that $\frac{7}{8} + \frac{7}{8} = \frac{14}{16}$, so $\frac{14}{16}$ of all the pizza was eaten. Is Tony's addition correct? Explain.

**Homework
Help**  **online**
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Connections

28. Suppose you select a number in the interval from $\frac{1}{2}$ to $\frac{3}{4}$ and a number in the interval from $\frac{3}{4}$ to $1\frac{1}{4}$. What is the least their sum can be? What is the greatest their sum can be? Explain your reasoning. (Note: The numbers $\frac{1}{2}$ and $\frac{3}{4}$ are included in the interval from $\frac{1}{2}$ to $\frac{3}{4}$.)

29. One number is near the benchmark $\frac{1}{4}$, and another is near the benchmark $1\frac{1}{2}$. Estimate their sum. Explain.

For Exercises 30–35, find a value for N that will make the sentence true.

30. $\frac{3}{12} = \frac{N}{8}$

31. $\frac{N}{4} = \frac{6}{8}$

32. $\frac{1}{2} = \frac{N}{12}$

33. $\frac{N}{12} = \frac{2}{3}$

34. $\frac{N}{8} = \frac{14}{16}$

35. $\frac{5}{12} = \frac{10}{N}$